


DORIEN HERREMANS

ASSISTANT PROFESSOR


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 Singapore

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 dorienherremans.com

 Female, LGBTQ+

SKILLS

AI Strategy

AI & Machine Learning

Research

Public speaking

Project Management

Grant writing & management

Innovation Management

Blockchain & FinTech

Multimedia technology

Leadership

EDUCATION

POSTDOC

Machine learning for music
Queen Mary University of
London, UK
2017

PHD, APPLIED ECONOMICS

University of Antwerp
2014

MSc, BUSINESS ENGINEER – MANAGEMENT INFORMATION SYSTEMS

University of Antwerp
2000-2005

SUMMARY

Expert in AI technologies for novel applications such as Audio and FinTech. In addition to focusing on technology, I am empowered by my economic background to better tackle leadership positions. I am passionate about strategic thinking (e.g. see the aiSTROM framework I developed for AI Strategy). Being an avid learner, I like to deconstruct novel technologies to better understand how they can serve strategic goals. I have ample experience acquiring and managing multi-million budgets, publishing in top journals/conferences, and leading multiple project teams. I have given invited talks about my work around the world. My detailed academic CV can be found at dorienherremans.com

PROFESSIONAL EXPERIENCE

ASSISTANT PROFESSOR (AI) 2017 - current

Director SUTD Game Lab (independent research centres within SUTD)
Singapore University of Technology and Design, Singapore, co-Founded by MIT

I founded and lead multiple labs: AMAAI (Audio, Music, and AI lab) as well as the AIFi (AI for Finance) lab. Some key achievements:

- Attracted and managed over **6 million SGD in funding** (~4.4 million USD) in funding, ~3.5 million as lead PI, and 2.5 million as co-PI.
- Manage on average **around 20 staff** (developers, research fellows & assistants, game designers, artists, in addition to multiple graduate students).
- Courses taught: Data Science, AI, and Applied Deep Learning, and Databases.
- Published in top journals and computer science conferences.
- 3 PhD students successfully defended under my supervision, currently advising 7 students.
- Advising in 11 PhD student committees; final jury member of 8 PhD students.
- Invited speaker at numerous international conferences.
- Monthly presentations to senior leadership, on progress leading the cyber physical campus initiative.

ACADEMIC BOARD MEMBER 2020 - current

AI Business School, Zürich, Switzerland

The school provide world class AI education to entrepreneurs, corporates, organizations, and individuals as well as to cultivate a global network of leading AI thought leaders, experts, companies, institutions, and AI talents.

- Contribute to shaping the future of the AI Business school by helping develop the online course content, keeping track of learning activities, and helping expand the faculty.

ADVISORY BOARD MEMBER 2020 - current

International Artificial Intelligence and Quantum Technology (AIQT) Foundation,
Davos, Switzerland

The International AIQT Foundation is the international competence platform in the fields of artificial intelligence and quantum technology.

DORIEN HERREMANS

LANGUAGE SKILLS

English - near native

Dutch - native

French - excellent

German - good

Spanish - fair

ACHIEVEMENTS

MARIE-CURIE FELLOWSHIP

European Research Council
2015

SG100 WOMEN IN TECH 2021

Award

SENIOR MEMBER

Institute of Electrical and
Electronics Engineers (IEEE)
2017

KEYNOTES AND TALKS

Gave over 60 invited talks and
seminars around the globe

TOP PUBLICATIONS

Published 88 manuscripts in
top scientific venues.

EXTERNAL PRESS

For podcasts - video interviews -
articles in the popular press:
dorienherremans.com/press

PROFESSIONAL EXPERIENCE *continued*

RESEARCH SCIENTIST (JOINT APPOINTMENT 25%) 2017 - 2020
Institute of High Performance Computing, A*STAR, Singapore

- Published and led project on gamifying AI Music technology for healthcare as well as audio transcription software.

CERTIFIED DEEP LEARNING INSTRUCTOR 2017 - 2019
NVIDIA Deep Learning Institute

- Led workshops on cutting-edge deep learning technology.

MARIE-CURIE FELLOW 2015 - 2017
Queen Mary University of London, UK

- Obtained funding for this position through grant writing.
- Published top research.
- Gave over 10 invited talks on 3 continents during these 2 years.

MANDAATASSISTANT 2010 - 2015
University of Antwerp, Belgium
Department of Engineering Management, Faculty of Applied Economics

- Elected faculty council member.
- Faculty member during my PhD (50% research, 50% teaching).
- Co-taught the following graduate-level courses:
 - Technological Project Management, Supply Chain Management, Seminar Applied Mathematics (Matlab), Operations Management, Total Quality Management, Final Project Business Engineering.

VISITING RESEARCHER April - June 2014
Universidad del País Vasco UPV/EHU, San Sebastián, Spain
Department of Computer Science and Artificial Intelligence

- Organised project management networking event.
- Developed AI music generation system .

WEBMASTER 2009 - 2010
Vanbreda International, Antwerp, Belgium

- Initiated move to Drupal platform, connected company with Dries Buytaert (founder of Drupal project)
- Maintained around 170 B2B microsites for corporate clients.

OWNER/FOUNDER 2006 - 2009
Holistic Vibes Sàrl, Sierre, Switzerland

- Sold over 4,000 copies of book I authored.
- Consulted on, and developed Drupal websites.

DORIEN HERREMANS

REFERENCES

DR. SIMON LUI

Director
Tencent Music
nomislui@gmail.com

PROF. ELAINE CHEW

Full Professor
IRCAM
eniale@gmail.com

PROF. KENNETH SORENSEN

Full Professor
University of Antwerp
ksrnsn@gmail.com

PROFESSIONAL EXPERIENCE *continued*

IT LECTURER

2006 - 2008

Les Roches, International School of Hotel Management, Montana, Switzerland

- Taught in MBA program (3D Computer Animation - Principles of Computer Applications).
- Ranked among the top 3 hospitality management schools in the world

PROFESSIONAL CERTIFICATES

CORPORATE GOVERNANCE (Diploma)

2021

Corporate Governance Institute - Glasgow Caledonian University

FINTECH (3 courses, incl. FinTech Ethics, Blockchain,...)

2021

University of Hong Kong

AI STRATEGY (1 course)

2020

University of Berkeley

FUNDAMENTALS OF TECHNICAL ANALYSIS (2 courses)

2021

New York Institute of Finance

SELECTED PUBLICATIONS

Authored over 85 top-tier scientific peer-reviewed publications. Full list available at dorienherremans.com/biblio

- D. Herremans. 2021. aiSTROM - A roadmap for developing a successful AI strategy. IEEE Access.
- Cheuk K.W., Anderson H., Agres K., Herremans D.. 2020. nnAudio: An on-the-fly GPU Audio to Spectrogram Conversion Toolbox Using 1D Convolution Neural Networks. IEEE Access.
- Cheuk K.W., Su L., Herremans D.. 2021. ReconVAT: A Semi-Supervised Automatic Music Transcription Framework for Low-Resource Real-World Data. ACM Multimedia.
- Herremans D., Chuan C.-H., Chew E.. 2017. A Functional Taxonomy of Music Generation Systems. ACM Computing Surveys. 50(5):30.
- Lee-Leon A., Yuen C., Herremans D.. 2021. Underwater Acoustic Communication Receiver Using Deep Belief Network. IEEE Transactions on Communications. :1-1.
- J. Ong, D. Herremans. In Press. Deep Multi-Task Learning for Time Series Momentum Portfolio.
- Herremans D., Martens D, Sørensen K.. 2014. Dance hit song prediction. Journal of New music Research. 43:302.
- Herremans D.. 2010. Drupal 6: Ultimate Community Site Guide. [book]

APPOINTMENTS & COMMITTEE MEMBERSHIP

- **Expert evaluator** for engineering panel for the evaluation of the 2019 Marie Skłodowska-Curie Action "Innovative Training Networks"
- **Scientific Advisory Committee** for AI.SG, AI Governance pillar
- Principle Risk Committees (cybersecurity & digital education), SUTD
- Faculty Selection Committee Member (AI faculty pos.) - University of Oslo
- **Guest editor:**
 - Neural Computing and Applications (top tier journal)
 - Proc. In Machine Learning Research (PMPR)
- Reviewer for over 10 top multidisciplinary journals
- Program committee member of over 10 top conferences
- Organising committee member of 3 top conferences (incl. ICASSP, NeurIPS HEAR Challenge)